

## Material Safety Data Sheet

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### 1. Identification of the substance/mixture and of the company/undertaking

**Product name:** TERGITOL 15-S-5 SURFACTANT, Tergitol 15-S-5

**Product code:** 10054722 - Tergitol 15-S-5

**Supplier:** Carestream Health, Inc., 150 Verona Street, Rochester, New York 14608; Carestream Health Canada Company, 6 Monogram Place, Suite 200, Toronto, Ontario, M9R 0A1

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

**Synonyms:** None.

### 2. Hazards identification

**CONTAINS:** Alcohols, C12-14-secondary, ethoxylated (84133-50-6), Polyethylene glycol (25322-68-3), Alcohols, C12-14-secondary (126950-60-5)

**WARNING!**

**HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED**

**CAUSES SKIN AND EYE IRRITATION**

**LOW PHYSICAL HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING**

**HMIS II Hazard Ratings:**

Health - 2, Flammability - 1, Reactivity (Stability) - 0

**NFPA Hazard Ratings:**

Health - 2, Flammability - 1, Instability - 0

NOTE: HMIS II and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. An asterisk (\*), in the HMIS II health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

### 3. Composition/information on ingredients

Weight %	Components (CAS-No.)
> 97	Alcohols, C12-14-secondary, ethoxylated (84133-50-6)
< 3	Polyethylene glycol (25322-68-3)
< 2	Alcohols, C12-14-secondary (126950-60-5)

### 4. First aid measures

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**Inhalation:** If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

**Eyes:** Rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

**Ingestion:** Do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

### Notes to physician:

**Treatment:** Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

## 5. Fire-fighting measures

**Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special Fire-Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Hazardous Combustion Products:** Carbon oxides

**Unusual Fire and Explosion Hazards:** None.

## 6. Accidental release measures

**Methods for cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.

## 7. Handling and storage

**Personal precautions:** Avoid prolonged or repeated breathing of mist or vapour. Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** Keep from contact with oxidizing materials.

**Storage:** Keep container tightly closed. Keep away from incompatible substances (see Incompatibility section.)

## 8. Exposure controls / personal protection

### Occupational exposure controls

Chemical Name	Regulatory List	Value Type	Value
Polyethylene glycol	WEEL	Time Weighted Average (TWA): <i>Form of exposure: Particulate.</i>	10 mg/m <sup>3</sup>

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**Ventilation:** Good general ventilation should be used. Ventilation should be sufficient so that applicable occupational exposure limits are not exceeded. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances.

**Respiratory protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. Respirator type: organic vapour/N95. If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

**Eye protection:** Wear safety glasses with side shields (or goggles).

**Skin and body protection:** Wear impervious gloves and protective clothing appropriate for the risk of exposure.

**Recommended Decontamination Facilities:** Safety shower, eye wash, washing facilities as appropriate to condition of use.

### 9. Physical and Chemical Properties

**Physical form:** liquid

**Colour:** colourless

**Odour:** mild

**Specific gravity:** 0.965

**Vapour pressure (at 20.0 °C (68.0 °F)) :** < 0.0133 mbar (< 0.0 mm Hg)

**Vapor density (air = 1):** > 1

**Volatile fraction by weight:** No data available

**Boiling point/range:** > 250.0 °C (> 482.0 °F)

**Water solubility:** dispersible

**pH:** No data available

**Flash point:** 177.7 °C (352.0 °F) (closed cup)

### 10. Stability and reactivity

**Stability:** Stable

**Incompatibility:** Strong oxidizing agents, strong acids, strong bases.

**Hazardous decomposition products:** None under normal conditions of use.

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**Hazardous Polymerization:** Hazardous polymerisation does not occur.

### 11. Toxicological information

#### Effects of Exposure

**Inhalation:** Expected to be a low hazard for recommended handling.

**Eyes:** Causes eye irritation.

**Skin:** Harmful if absorbed through skin. Causes skin irritation.

**Ingestion:** Harmful if swallowed. If aspirated into lungs during swallowing or vomiting, it may cause pulmonary hemorrhage, edema and possible death.

### 12. Ecological information

Data for this material and chemically similar materials were used to estimate the environmental impact of this material.

Potential Toxicity:

Fish LC50: 1 - 10 mg/l

Daphnid EC50: 1 - 10 mg/l

Waste treatment organisms EC50: > 100 mg/l

Organics Readily Degradable: Readily biodegradable

### 13. Disposal considerations

Discharge, treatment, or disposal is subject to national, state, provincial, or municipal laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

<b>US DOT:</b>	UN Number:	UN3082
	Proper shipping name:	Environmentally hazardous substances, liquid, n.o.s. (Alcohol C6-C17 (secondary)poly(3-6) ethoxylate)
	Class:	9
	Packaging group:	III
	Marine Pollutant status:	Marine pollutant

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**IMDG:** UN Number: UN3082  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohol C6-C17 (secondary)poly(3-6) ethoxylate)  
Class: 9  
Packaging group: III  
Marine Pollutant status: Marine pollutant

**IATA:** UN Number: UN3082  
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Alcohol C6-C17 (secondary)poly(3-6) ethoxylate)  
Class: 9  
Packaging group: III  
Marine Pollutant status: Marine pollutant

For more transportation information, go to: <http://ship.carestreamhealth.com>.

### 15. Regulatory information

**U.S. California Prop. 65:** none

**Carcinogenicity Classification (components present at 0.1% or more):**

International Agency for Research on Cancer (IARC): none  
American Conference of Governmental Industrial Hygienists (ACGIH): none  
U.S. National Toxicology Program (NTP): none  
U.S. Occupational Safety and Health Administration (OSHA): none

**Chemical(s) subject to the reporting requirements of U.S. Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:**  
none

### 16. Other information

**US/Canadian Label Statements:**

**CONTAINS:** Alcohols, C12-14-secondary, ethoxylated (84133-50-6), Polyethylene glycol (25322-68-3), Alcohols, C12-14-secondary (126950-60-5)

**WARNING!**

**HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED**

**CAUSES SKIN AND EYE IRRITATION**

**LOW PHYSICAL HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING**

Avoid prolonged or repeated breathing of mist or vapour.

Avoid contact with eyes, skin, and clothing.

Ensure adequate ventilation.

Wash thoroughly after handling.

**FIRST AID:** If swallowed, do NOT induce vomiting. Give victim a glass of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

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**Notes to physician:** Whenever possible, stomach evacuation should be accomplished by gastric lavage with appropriate airway control to prevent aspiration.

Keep out of reach of children.

For additional information, see Material Safety Data Sheet (MSDS) for this material.

Additional hazard precautions for containers greater than 1 gallon of liquid or 5 pounds of solid:

Since emptied containers retain product residue, follow label warnings even after container is emptied.

**IN CASE OF FIRE:** In case of fire, use water spray, foam, dry chemical or CO<sub>2</sub>. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.

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R-1, S-2, F-1, C-0